Fleet Energy Training

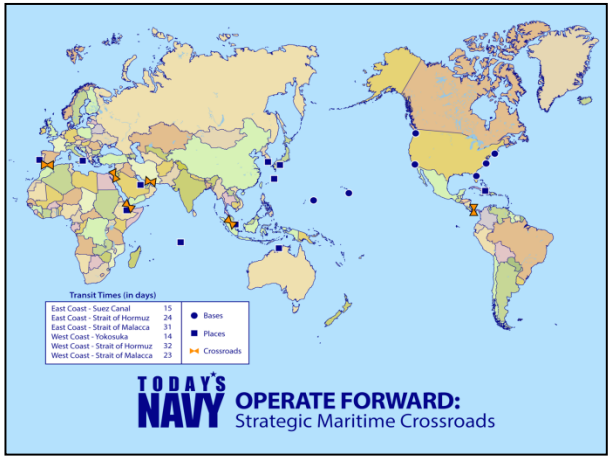
RADM Kevin Slates, OPNAV N45

6 November 2014

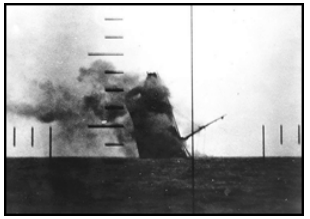
Jacksonville, FL

Focus Areas

More Presence, Less Fuel

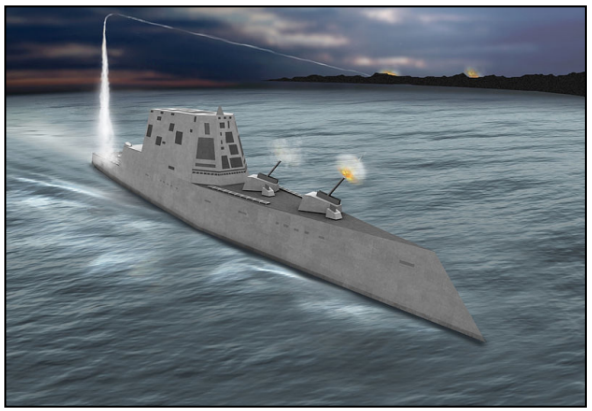

Transit Times (in days)
East Coast - Suez Canal 15
East Coast - Strait of Hormuz 24
East Coast - Strait of Malacca 31
West Coast - Yokosuka 14
West Coast - Strait of Hormuz 32
West Coast - Strait of Malacca 23
Bases
Places
Crossroads
TODAY'S NAVY
OPERATE FORWARD:
Strategic Maritime Crossroads

Reduce Supply Chain Vulnerabilities



Installation / Base Resilience

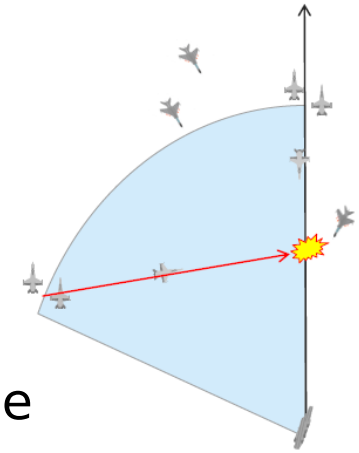
Leverage Fungible Energy



Warfighting is Primary

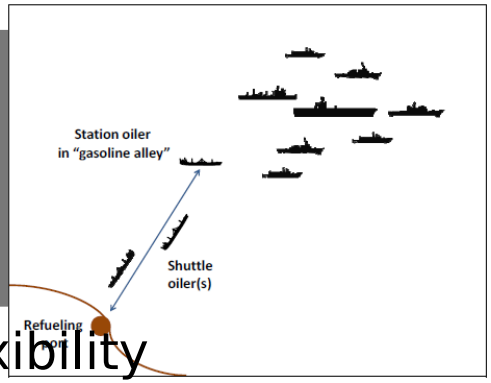
Operational Benefits

Air Operations



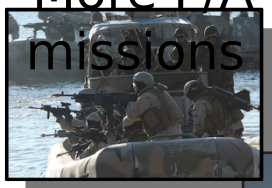
- Time at max power
- Range and endurance
- Reduces number of F/A-18E/F tankers
- More F/A-18E/F available for other missions

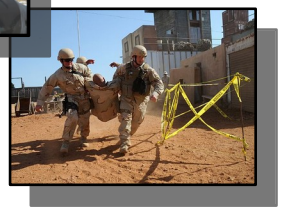
Surface Operations



- Operational flexibility
- More time on station and energy for advanced systems
- Increased time/distance between refuelings

Expeditionary Operations





- Reduced convoys to Forward Operating Bases (FOBs)
- Extended range and endurance

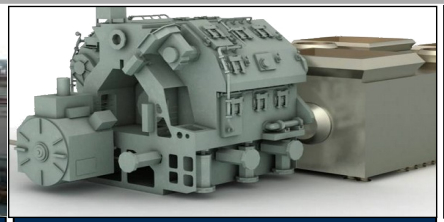
Energy Efficiency = More Combat Capability

Energy Initiatives Afloat & Ashore

Maritime

Efficient Ship Systems

Improved Hydrodynamics



DDG-51 Hybrid Electric Drive

Energy Dashboard

Aviation

Operations & Policy

Research & Development

Science & Technology

Flight Simulators

Biofuels

F/A-18 Super Hornet

Riverine Combat

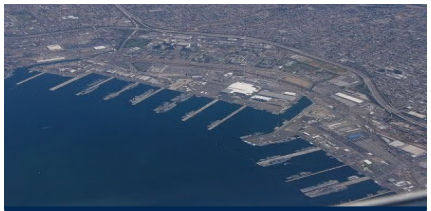
MH-60S Seahawk

T-AO/CG/DDG/CVN

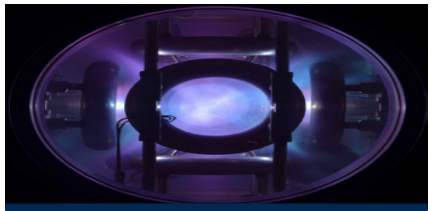
Shore

Solar/Wind/Geothermal

Advanced Metering



Navy's Smart Grid



Advanced Power

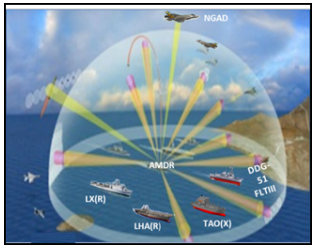
Investments in efficiency and alternatives reflect a portfolio approach

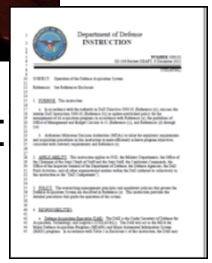
A Culture of Energy Stewardship

Challenges

- Technology helps but is not the only solution
- Changing how we value and consume energy
- We lose capability if we don't change our approach

Policy & Guidance





- Operational Energy Instruct
- Energy in Acquisition / KPP

Warfighter Actions

- iENCON / Air ENCON
- Energy in War Games
- milSuite Collaboration
- Energy Warrior
- We want your ideas

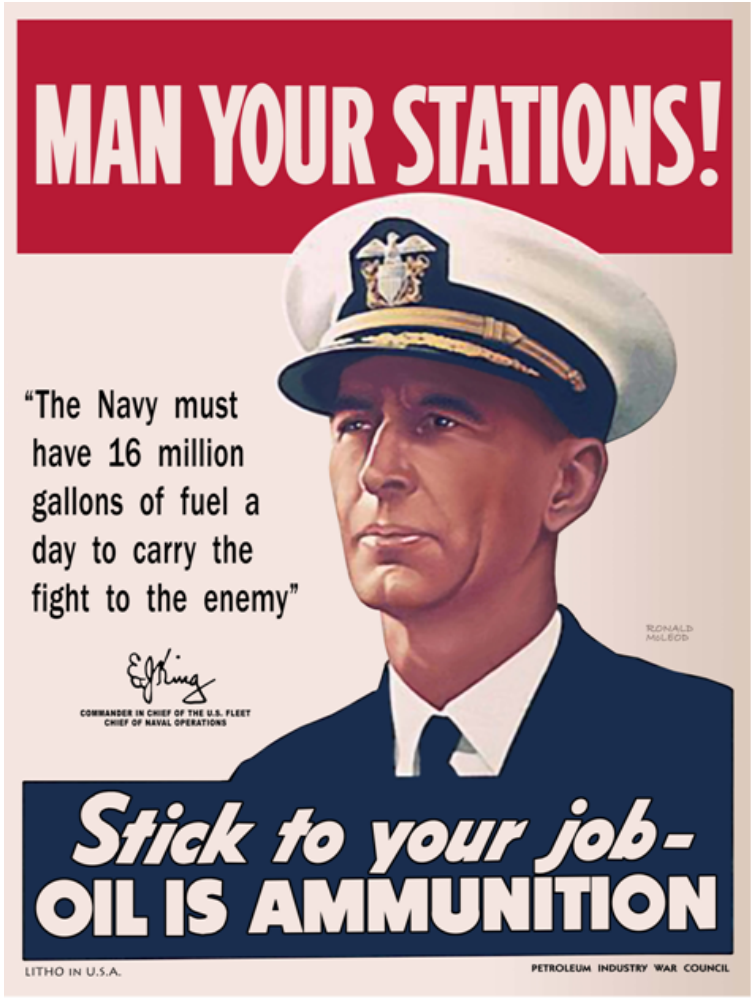
milSuite

Training & Education

- Energy Training & Education Continuum
- Fleet Energy Training

"Save energy when you can" → "Save energy unless you can't"

Learn from History


MAN YOUR STATIONS!
"The Navy must have 16 million gallons of fuel a day to carry the fight to the enemy"
COMMANDER IN CHIEF OF THE U.S. FLEET
CHIEF OF NAVAL OPERATIONS
RONALD McLEOD
Stick to your job-
OIL IS AMMUNITION
LITHO IN U.S.A.
PETROLEUM INDUSTRY WAR COUNCIL

"History doesn't always repeat itself, but it rhymes"